

Product datasheet for **MR224438**

Zbtb46 (NM_027656) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb46 (NM_027656) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zbtb46
Synonyms:	2610019F01Rik; 4933406L05Rik; Btbd4; BZEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224438 representing NM_027656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAACAACCGAAAGGAAGATATGGAAATCACTTCTCACTACCGCATCTGCTTCGAGAGCTCAATGAGC
 AGAGGCAGCACGGAGTCTCTGTGATGCGTGCGTGGTGGAGGCAAGGTCTTCAAGGCACATAAGAA
 CGTCTTGCTTGGGAGCAGCCGCTACTTTAAGACGCTCTACTGCCAGGTACAGAAGACATCTGACCAGGCC
 ACCGTCACCTCACTTGGACATTGTTACAGCCCAGGGCTTCAAGGCCATTATTGACTTCATGTACTCCGCC
 ATCTGGCTCTCACTAGTAGGAATGTCATCGAGGTGATGTCAGCTGCCAGCTTCTACAGATGACTGACAT
 TGTGCAGGCCTGCCATGATTTCAAGGCTGCACTGGACATCAGCATAAAGTCAGATGCCTCCGATGAA
 CTCTCAGAATTTGAGATTGGCAGCCAGCCAGCAACAGTACAGAGGCGTTGATCTCAGCTGTGATGGCTG
 GAAGGAGTATCTCCCATGGTTGGCTCGGAGAACAAAGTCTGCCAATTCTTCTGGAGACTCTGCCATTGC
 CAGCTGTGATGAAGGAGGAAGCAGCTATGGGAAGGAGGACCAGGAACCCAAAGCTGATGGCCTGATGAC
 GTTCTTTCACAGTCTTTGTGGCCTGGAGATGTAGGCTATGGGTCTCTGCGCATCAAGGAAGAAGCAGATTT
 CACCATCACATTATGGAGGGAGTGAGCTTCCATCTTCCAAGGACACTGCAATACAGAATTCTTTATCAGA
 ACAGGGTTCTGGGGATGGCTGGCAGCCACAGGCCGAGGAAGAATCGGAAAAACAAAGAGACTGTCCGA
 CACATCACCCAGCAGGTGGAGGAGGACAGCCAGGCTGGCTCTCCAGTACCTTCATTCTACCCACATCGG
 GATGGCCTTTCAGCAGCCGAGACTCAAATGTAGACCTGACGGTCACTGAGGCCAGCAGCTTGGACAGCCG
 AGGCGAGAGAGCAGAGCTCTATGCTCACATCGATGAGGGCCTACTAGGAGGAGAAACCAGCTACTTGGGC
 CCACCCCTCACCCAGAGAAGGAAGAAGCACTACACAGGCTACTGCAGTGGCCAATCTTCGTGCTGCAC
 TCATGAGTAAGAAGCAGTCTGCTGCTCAAGGCTGACGTGCTCGGTGATGATGGCTCACTTCTGTTCTGA
 GTACCTGCCCAAAGGTGCCCACTCACTGTCTGAACGAATTCACGGTGATCAGGAAGAAGTTCAAGTGC
 CCTACTGCAGCTTCTCAGCCATGCACCACTGCATCCTTAAGCGACACATGCGCTCACATACTGGAGAGC
 GGCCCTACCTTGTGAGATCTGTGGCAAGAAGTTCACTAGGAGAGAGCACATGAAGCGACATACTCTGGT
 CCACAGCAAGGACAAGAAGTACGTGTGCAAGTGTGCAGCCGTGTGTTTCTGCTGCAGCCAGCGTGGGC
 ATTAAGCACGGCTCTCGTCGCCATGGGGTGTGTGCAGACTGTGCTGGCCGGGTGTGGGCACGCCACTGG
 ACCATGGTGGAGGTGGCAGGGCTCCCCTGAGGCGCTGTTTGTGGTGAAGGGCCGTACCTGGAGGACCC
 GGATGATCCACGAGGGGAGGCTGAGGAGGAGCTGGTTGAGGATGAGGATGAGGACGTGGCCAAGTGAAG
 GATGACGTGGGCTTGGCCATGAGGATGCACTGCTGGGGATGACAAGGATGATGAAGACTCTCCACAGG
 GGCTCACAGCCCTCTGGGGAGCCGATAAAGACTTTGCCTGGATCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224438 representing NM_027656
 Red=Cloning site Green=Tags(s)

MNNRKEDMEITSHYRHLLRELNEQRQHGVLCDAVVEGKVFKAHKNVLLGSSRYFKLYCQVQKTSQDA
 TVTHLDIVTAQGFKAIDFMYSALHLATSRNIEVMSAASFLQMTDIVQACHDFIKAALDISIKSDASDE
 LSEFEIGTPASNSTEALISAVMAGRSISPWLARTSPANSSGDSAIA SCHEGGSSYGKEDQEPKADGPDD
 VSSQSLWPGDVGYGSLRIKEEQISPSHYGSELPSKDTAIQNSLSEQSGDGWQPTGRRKNRKNKETVR
 HITQQVEEDSQAGSPVPSFLPTSGWPFSSRDSNVDLTVTEASSLDSRGERAEL YAHIDEGLLGGETSYLG
 PPLTPEKEEALHQATAVANLRAALMSKNLLSLKADVLGDDGSLLEFYLPGAHSLSLNEFTVIRKKFKC
 PYCSFSAMHQCILKRHMRSHTGERPYPCEICGKKFTRREHMKRHTLVHSDKKYYVCKVCSRVFMSAASVG
 IKHGSRRHGVCADCAGRGVGTPLDHGGGGESPEALFAGEGPYLEDPDDPRGEAEELVEDEDEDVAKWK
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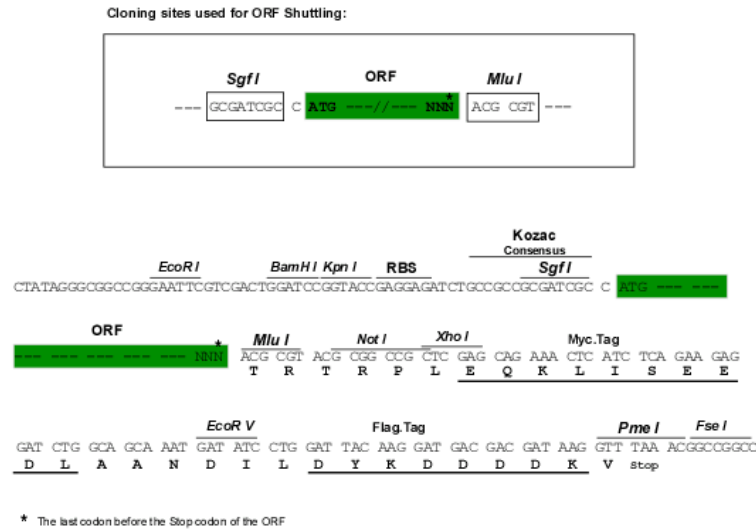
TRTRPLE**QKL**ISEED**LA**ND**ILDYK**DDDD**KV**

Chromatograms:

https://cdn.origene.com/chromatograms/ja2354_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027656

ORF Size: 1800 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_027656.2](#), [NP_081932.1](#)

RefSeq Size: 2014 bp

RefSeq ORF: 1803 bp

Locus ID: 72147

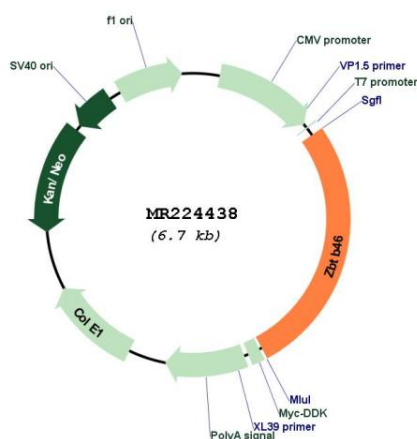
UniProt ID: [Q8BID6](#)

Cytogenetics: 2 H4

MW: 65.9 kDa

Gene Summary: Function as a transcriptional repressor for PRDM1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224438